

L6 ANSWER 3 OF 24 CA COPYRIGHT 2006 ACS on STN
 AN 142:78846 CA
 ED Entered STN: 20 Jan 2005
 TI Method of production of cellular nonautoclave concrete for wall members
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 SO Russ., No pp. given
 CODEN: RUXXE7
 DT Patent
 LA Russian
 IC ICM C04B038-02
 CC 58-2 (Cement, Concrete, and Related Building Materials)
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RU 2243189	C1	20041227	RU 2003-124027	20030730
PRAI RU 2003-124027		20030730		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
RU 2243189	ICM	C04B038-02
	IPCI	C04B0038-02 [ICM,7]
	IPCR	C04B0038-02 [I,A]; C04B0038-02 [I,C]

AB The method includes proportioning of cement, silica component, gas-forming agent, additives, and water followed by stirring the mix simultaneously with hydromech. activation; additives are proportioned addnl.; duration of the activation is 5 to 10 min; gas-forming agent is introduced in 2-3 min before mixing completion. The mix for production of nonautoclave aerated concrete containing cement, silicate component in the form of fly ash from thermoelec. power plants or fine sand, building gypsum, gas-forming agent, plasticizer, and water. The gas-forming agent is aluminum powder or paste. the activating additive is soda sulfite waste of alumina production process or another product containing sodium sulfate. The concrete mix contains cement 48-52, silica component 10-14, water 35-37.5, gas-forming agent 0.04-0.06, building gypsum 1.2-1.4, activating additive 1.2-1.4, and superplasticizer S-3 0.25-0.35 weight%. The method provides fast hardening of the mix, and enhanced strength and d. of concrete.

ST cellular concrete cement fly ash
 gypsum silica
 IT Concrete

48-52 - Cement
 35-37.5 - water
 10-14 - fly ash (silica component)
 - superplasticizer [plasticizer]